IN THE CLAIMS:

Claims 1-6 (cancelled)

Claim 7. (Previously presented) In a system for programming a respirator for ventilating a patient, the system including a programmable controller responsive to selected ventilation parameters for controlling the respirator to ventilate the patient and for storing a plurality of ventilation parameters, a display for displaying a plurality of ventilation parameters currently used by the controller to control the respirator and a plurality of proposed ventilation parameters, and input means cooperating with the controller and the display for selecting one of the proposed ventilation parameters from the plurality of proposed ventilation parameters, the improvement comprising:

said display including a graphical representation of the effect of the proposed ventilation parameters on the breath cycle.

Claim 8. (Previously presented) The system of Claim 7, wherein said display includes a graphical representation of the ventilation parameters currently used.

Claim 9. (Previously presented) The system of Claim 7, wherein said display includes a graphical representation of the proposed ventilation parameters of a breath cycle.

Claim 10. (Previously presented) The system of claim 7, wherein the graphical representation of the effect of the proposed ventilation parameters on the breath cycle comprises a time scale, an inspiration bar and an expiration bar, and the lengths of

the inspiration bar and the expiration bar are a function of the ventilator settings used by the controller to control the ventilator.

Claim 11. (Previously presented) The system of claim 7, wherein the input means includes means for assigning values to the selected proposed ventilation parameters, the graphical representation of the effect of the proposed ventilation parameters on the breath cycle comprises a time scale, an inspiration bar and an expiration bar, and the lengths of the inspiration bar and the expiration bar are a function of the assigned values of the proposed and not yet accepted ventilator settings.

Claim 12. (Previously presented) The system of claim 10, wherein the time scale is associated with the inspiration and expiration bar and is rescaled to be compatible with the combination of the times on the bar.

Claim 13. (Previously presented) The system of Claim 11, wherein the time scale associated with the inspiration and expiration bar is rescaled to be compatible with the combinations of the times on the bar.